

Resource Summary Report

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GlycoMod

RRID:SCR_001602

Type: Tool

Proper Citation

GlycoMod (RRID:SCR_001602)

Resource Information

URL: <http://web.expasy.org/glycomod/>

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Description: A tool that can predict the possible oligosaccharide structures that occur on proteins from their experimentally determined masses. This is done by comparing the mass of the glycan to a list of pre-computed masses of glycan compositions. The program can be used with free or derivatised glycans and for glycopeptides where the peptide mass or protein is known. Compositional constraints can be applied to the output. Note: You can use GlycanMass to calculate the mass of an oligosaccharide structure from its oligosaccharide composition.

Abbreviations: GlycoMod

Synonyms: GlycoMod Tool

Resource Type: analysis service resource, data analysis service, production service resource, service resource

Defining Citation: [PMID:11680880](#)

Keywords: predict, oligosaccharide structure, protein, mass, oligosaccharide, glycopeptide, glycoprotein, oligosaccharide composition, mass spectrometry, glycosylation, composition, glycan, structure, n-linked oligosaccharide, o-linked oligosaccharide, monosaccharide residue

Availability: Free, Freely available

Resource Name: GlycoMod

Resource ID: SCR_001602

Alternate IDs: nlx_153859

Record Creation Time: 20220129T080208+0000

Record Last Update: 20260905T133114+0000

Ratings and Alerts

No rating or validation information has been found for GlycoMod.

No alerts have been found for GlycoMod.

Data and Source Information

Source: [SciCrunch Registry](#)

Usage and Citation Metrics

We found 117 mentions in open access literature.

Listed below are recent publications. The full list is available at [Kravitz](#) .

Chew IYY, et al. (2026) N-glycosylation alterations in expressed prostatic secretions: exploring liquid biopsy biomarkers for prostate cancer diagnosis and disease progression. PeerJ, 14, e21401.

Isogai T, et al. (2026) Highly branched complex-type N-glycans on integrin $\alpha 1$ in extracellular vesicles enhance the binding of sEVs to laminin on recipient cells. The Journal of biological chemistry, 302(6), 113146.

Katoh T, et al. (2026) Unique bifunctional α -sialidase/ β -N-acetylgalactosaminidase from Bifidobacterium bifidum acting on the Sda antigen. The Journal of biological chemistry, 302(2), 111121.

Nutsford A, et al. (2026) A novel glycoform of the rotavirus outer capsid protein VP7 is secreted from polarized cells and activates innate immune cells. Journal of virology, 100(3), e0189825.

Eisenberg SM, et al. (2026) Glycan signal enhancement by ammonium fluoride doping and electrospray diverting. The Analyst, 151(9), 2704.

Messina A, et al. (2026) IgG Glycosylation Analysis in Patients with Ring14 Syndrome Unveils Novel Pathomechanisms and New Therapy Perspectives. Biomolecules, 16(6).

Eisenberg SM, et al. (2026) High-Throughput N-Glycan Analysis by IR-MALDESI With a 1.5-kHz Pulsed Mid-IR Laser. Journal of mass spectrometry : JMS, 61(5), e70056.

Cindrić A, et al. (2025) Total cell N-glycosylation is altered during differentiation of induced pluripotent stem cells to neural stem cells and is disturbed by trisomy 21. BBA advances, 7, 100137.

Wang G, et al. (2025) Abnormal glycosylation changes in brain tissue of kainic acid-induced epileptic rats. *Scientific reports*, 15(1), 45596.

Zhao XY, et al. (2025) Quantitative glycoproteomics identifies target N-glycoproteins of the Golgi-class I α -mannosidase SIMNSI1 that is important for tomato fruit development. *Plant communications*, 6(12), 101537.

Adepoju AA, et al. (2025) A Strategy to Achieve Sub-Parts-per-Million Mass Measurement Accuracy of N-Linked Glycans Using Infrared Matrix-Assisted Laser Desorption Electrospray Ionization. *Journal of mass spectrometry : JMS*, 60(10), e5184.

Lee YR, et al. (2025) Comprehensive Approach for Sequential MALDI-MSI Analysis of Lipids, N-Glycans, and Peptides in Fresh-Frozen Rodent Brain Tissues. *Analytical chemistry*, 97(2), 1338.

Hirayama M, et al. (2025) Longitudinal changes in the abundance of IgA1 O- and N-glycoforms in IgA nephropathy. *Clinical and experimental nephrology*, 29(8), 1102.

Mao Y, et al. (2025) Serum Disease-Specific IgG Fc Glycosylation as Potential Biomarkers for Nonproliferative and Proliferative Diabetic Retinopathy Using Mass Spectrometry. *Molecular & cellular proteomics : MCP*, 24(5), 100967.

Tokoro Y, et al. (2024) LacdiNAc synthase B4GALNT3 has a unique PA14 domain and suppresses N-glycan capping. *The Journal of biological chemistry*, 300(7), 107450.

Zhang T, et al. (2024) Comprehensive O-Glycan Analysis by Porous Graphitized Carbon Nanoliquid Chromatography-Mass Spectrometry. *Analytical chemistry*, 96(22), 8942.

Osada N, et al. (2024) Self-regulation of MGAT4A and MGAT4B activity toward glycoproteins through interaction of lectin domain with their own N-glycans. *iScience*, 27(11), 111066.

Palomino TV, et al. (2024) In-depth characterization of N-glycosylation and sialic acid content in fetal and adult fibrinogen. *Research and practice in thrombosis and haemostasis*, 8(8), 102618.

Hsu YP, et al. (2023) Structural remodeling of SARS-CoV-2 spike protein glycans reveals the regulatory roles in receptor-binding affinity. *Glycobiology*, 33(2), 126.

Song W, et al. (2023) Expression of GnT-III decreases chemoresistance via negatively regulating P-glycoprotein expression: Involvement of the TNFR2-NF- κ B signaling pathway. *The Journal of biological chemistry*, 299(4), 103051.